Kentucky Information Technology Standards (KITS)

Full KITS Report - Word Search

EAS Code	EAS Category Name	Standard	KITS Category Code	KITS Domain > Area > Category	KITS Description	Approved Products	Date	
8100	Application Development Methodology and Software	Structured Analysis & Design - Commonwealth Office of Technology's	B10.813.326	General Government > Support delivery of state	IT System Development / Integration Support includes the software services enabling elements	Design/Analysis/Data Modeling: Design Tools:	Effective:	7/1/1997
		Systems Development Life Cycle (SDLC) Methodology (COT-140)		services > IT System Development /	of distributed business applications to interoperate and the software development necessary to	 Microsoft - Excel Microsoft - Visio	Revised:	6/17/2015
		RUP: Rational Unified Processing: Implementing Features from RUP AND UML BASED design and analysis OOAD: Object Oriented Analysis and Design		Integration Support	facilitate such integration. These elements can share function, content, and communications across heterogeneous computing environments.	 Microsoft - Word Rational Software Architect Data Modeling: CA - ERwin Data Modeler Analysis/Design/Modeling Library: Docushare *Not for new installations. Microsoft Visual SourceSafe *Not for new installations. Mainstream support slated to end 7/10/2012; Extended Support slated to end 7/11/2017 Microsoft Team Foundation Server Design Patterns: GoF (Gang of Four) Patterns Extensibility Frameworks Developer Productivity Tool: ReSharper 8 for Visual Studio Extension 	Reviewed:	6/17/2015

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8200	Application Development Platform	The Commonwealth of Kentucky has adopted a standard which mandates		> Development Environment and Tools > Integrated Development	Software that provides comprehensive facilities to computer programmers for software development.	For the .NET development environment:	Effective:	2/18/2009
		purchasing new departmental or				Comprehensive development suite for the .NET development	Revised:	7/24/2015
8200		adopted a standard which mandates that every state agency developing or	A02.022.240	> Development Environment and Tools >	·	environment: Comprehensive development	Revised:	
		Web services, WebForms, WinForms and others:				• Visual C++ • Visual J#		
		a. Biztalk3. IBM z/OS Platform (the z/OS and earlier MVS platforms were				 Visual Studio Legacy tools for the z/OS, UNIX, J2EE environments: 		
		characterized by applications written in				• C and C++		

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	EAS Category Name	COBOL, or Telon, executing under one of the following environments, while possibly accessing QSAM, VSAM, IMS/DB or DB2 for data access) a. Batch Execution Environment – This environment is characterized by executing under control of JES (Job Entry Subsystem) with JCL (Job Control Language). These jobs are usually scheduled with CA-Scheduler. Programs execute as steps within these jobs and are developed with various languages (including Enterprise COBOL, HASM, SAS, etc.) that usually run under LE (Language Environment). b. IMS Subsystem – The IMS subsystem is a transaction monitor that executes programs as transaction regions. Programs execute as transactions or subprograms and are developed with various languages (including Enterprise COBOL, HASM, etc.) that run under LE (Language Environment). Development in this environment is deprecated. c. CICS Subsystem – The CICS subsystem is a transaction monitor that executes programs as transactions. Programs execute as transactions or subprograms and are developed with various languages (including Enterprise COBOL, HASM, etc.) that run under LE (Language Environment). Development in this environment is deprecated. d. CICS Subsystem – The CICS subsystem is a transaction monitor that executes programs as transactions. Programs execute as transactions or subprograms and are developed with various languages (including Enterprise COBOL, HASM, etc.) that run under LE (Language Environment). Development in this environment is deprecated. d. IBM Message Broker platform – This is the IBM Message Broker platform – This is the IBM Message Broker platform as a broker for application integration. Software is developed using IBM Message Broker Toolkit within the Rational Application Developer Suite. 4. UNIX Platform (the traditional UNIX platform is characterized by			KITS Description	 Enterprise COBOL for z/OS ISPF Dialog Management Facility PKZip for MVS REXX/CLIST SAS (Statistical Analysis System) Scheduler Sybase Client ASE 15 Syncsort Telon Development Facility VisualAge C++ VisualAge COBOL *Not for new development. Visual Age Enterprise Suite WebSphere Xpeditor (Compuware) Data Access Tools: Aqua Data (DB2) File-AID (IMS, DB2, RDX) InSync (FILE) Oracle SQL Developer PL/SQL (Oracle) SQL Server Management Studio Progress DataDirect Shadow (DB2) Query Management Facility (DB2) SPUFI (DB2) Squirrel (DB2) TOAD (Oracle) VSAM Assist (VSAM) Reporting Tools See 2310 – Business Intelligence Software IBM SPSS Report Distribution System (RDS) Developer Support Tools: EditPlus Gimp (graphics editor) IBM Redbooks Librarian Microsoft Developer Network Microsoft TechNet Microsoft Visual SourceSafe
		applications written in C or C+, executing on SUN or IBM UNIX servers,				Classic for (Microsoft Legacy Applications) CA-Librarian (z/os)

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EAS Code	EAS Category Name	Standard	KITS Category Code	KITS Domain > Area > Category	KITS Description	Approved Products
8200		while accessing data stored in Oracle databases) 5. Java 2 Platform, Enterprise Edition (Java EE) - a Sun Microsystemssponsored architecture specification that prescribes application architecture for Java-based business applications. Java EE is implemented by multiple vendors and includes a J EE application server combined with Java EE message-orientated middleware. Programming models of Java EE include Java Server Pages, servlets, Session EJB and entity Enterprise JavaBeans. State agencies developing or purchasing new, wireless departmental or enterprise applications that will be accessed primarily via wireless phones and PDAs must utilize one of the following two application development platforms: 1. Microsoft .NET Compact Framework - provides tools for developing mobile applications on Pocket PC devices and the Microsoft Smartphone. 2. Java 2 Platform, Micro Edition (J2ME) - a version of Java that is defined by Sun Microsystems for use in devices such as mobile phones. J2ME is part of a set of related Java technologies that includes definitions of profiles and configurations for application developers.				 Microsoft Windows Software Development Kit Notepad++ Notepad XML PCO (Production Cutover) Rational ClearCase (Source Control) Junit Log4J Textpad Toad-for-Oracle Other Tools: Abend-Aid (Error Analysis) CA Platinum Compuware File-AID (z/os) Compuware Xpediter (z/os debugging) CSLA (.net Framework) DataFlux DB2 for z/os (Database Manager) DCD III (COBOL Cross Ref/Documenter) Dollar Universe DynamicPDF Generator.NET File-AID FileMaker Pro FxCOP (code walkthrough Microsoft) IBM QMF/SPUFI InSync JCL Check (JCL Verification/Standardization) Metalogix StoragePoint Nunit (unit Test Microsoft) PHIN MS Program Analyzer (COBOL Source Analysis) Qbase Query Management Facility (QMF) Rational Rhapsody Resource Access and Control Facility (RACF) (System Security) Spool Display Sysout Facility (SDSF) (Job Queue Access) SPUFI

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8200						Strobe/iStrobe (Z/OS Profiler) ULS Viewer VSAM Assist	

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8300	Application Development Quality Management	Application Development Quality Management Software tools provide	A02.022.245	Application Components > Development	Software tools that check web pages for accessibility and syntactical correctness of code.	Automated Load/Stress Testing: • Mercury LoadRunner (Hewlett	Effective:	2/18/2009
	Software	features to assist in testing activities such as: load/stress testing,		Environment and Tools > Validation Tools		Packard) Requirements	Revised:	2/16/2011
	suc fur rec ass Ne ecc pro rec inti age cor env Ap • Ir Sta • C 1.0 Tec Cor The	such as: load/stress testing, functional/regression testing, requirements traceability and security assessments. Need a limited product set for: economies-of-scale with respect to procurement, skills transferability required by a mobile workforce, data interchange between state government agencies, skills requirements for a competency team development environment. Approved Standards: International Organization for Standardization (ISO) Compliance with Section 502, WCAG 1.0, WCAG 2.0, CLF, XAG Standards Technical and Implementation Considerations: The advent of service-oriented		Validation Tools		Requirements Management/Traceability: • Mercury Quality Center (Hewlett Packard) Defects Tracking: • Mercury Quality Center (Hewlett Packard) • Seapine Software TestTrack Professional • Team Foundation Suite • Visual Studio Team Suite Accessibility Validation and Repair: • HiSoftware AccRepair • HiSoftware AccVerify • HiSoftware Compliance Sheriff Application Security Assessments: • Hewlett Packard WebInspect	Reviewed:	6/17/2015
		architecture (SOA), increasing complexity and more regulations are						
		renewing the focus on raising quality efforts, through more-effective approaches. This increases the need for						
		solutions that are well-integrated across the application life cycle, not						
		only during the development cycle but also into production. Emerging Trends and Architectural						

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Directions:

tools.

Requirements for testing products have changed from testing the product in isolation to integrating the testing with the rest of the product's life cycle, and to support collaboration across the QA team and among the entire project team. Therefore, IT organizations should focus on testing workflow and quality management issues across the organization when selecting a set of

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